WHAT IS CLAIMED IS:

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1. A B cell epitope peptide comprising the amino acid sequence as denoted by SEQ ID NO:1.

- 2. A B cell epitope peptide as claimed in claim 1 having the amino acid sequence as denoted by SEQ ID NO:2.
- 3. A B cell epitope peptide as claimed in claim 1 having the amino acid sequence as denoted by SEQ ID NO:3.
- 4. A B cell epitope peptide comprising the amino acid sequence as denoted by SEQ ID

2 NO:4.

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- 5. A B cell exitope peptide as claimed in claim 1, being a synthetic peptide.
- 6. A chemically modified peptide according to claim 5.
- 7. A B cell epitope peptide as claimed in claim 1 capable of conferring immunity against autoimmune and/or inflammatory disorders.
- 8. A nucleic acid sequence encoding a B cell epitope peptide as claimed in claim 1.
- 1 9. A DNA sequence as claimed in to claim 8.
- 1 10. A DNA sequence as claimed in claim 9 comprising the nucleic acid sequence as
- denoted by SEQ ID NO:5.
- 1 11. A DNA construct comprising a nucleic acid sequence as claimed in claim 8.
- 1 12. A DNA construct comprising the DNA sequence as claimed in claim 9.
 - 13. A vaccine comprising as active ingredient an effective vaccinating amount of at least one B cell epitope peptide as claimed in claim 1, optionally further comprising pharmaceutically acceptable carrier, diluent, additive or adjuvant.

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- 1 14. A vaccine comprising as active ingredient a DNA sequence as claimed in claim 1,
- optionally further comprising a pharmaceutically acceptable carrier, diluent, additive or
- 3 adjuvant.

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- 15. A vaccine as claimed in claim 13, for conferring immunity against autoimmune or inflammatory disorders.
- 1 16. The vaccine as claimed claim 15 for conferring immunity against arthritis.
- 1 17. An antibody directed against a B cell epitope peptide comprising the amino acid
- sequence as denoted by SEQ ID NO:1.
- 1 18. An antibody directed against a B cell epitope peptide having the amino acid sequence
- 2 as denoted by SEQ ID NO:2.
- 1 19. An antibody directed against a B cell epitope peptide having the amino acid sequence
- 2 as denoted by SEQ ID NO:3.
- 1 20. An antibody directed against a B cell epitope peptide comprising the amino acid
- sequence as denoted by SEQ ID NO:4.
- 1 21. A composition for the passive immunization against an autoimmune or inflammatory
- disorder comprising a pharmaceutically effective amount of an antibody as claimed in
- 3 claim 17.
- 1 22. A composition as claimed in claim 21, for the prevention or treatment of autoimmune
- 2 or inflammatory disorder.
- 1 23. A method for predicting the susceptibility/predisposition of an individual to arthritis
- 2 by testing a sample of serum from said individual for the presence of antibodies directed
- against a peptide as claimed in claim 1, by suitable immunoassay techniques.



